

Evaporators and air coolers REF, RBF, RAF e RGF

Series R_F is consisting of industrial evaporators and air coolers for big cold rooms with volume from 550 to 3700 m³. These unit are designed for heavy employ for cooling and storage of fresh and frozen products with temperature from -40 to +10°C. Series R_F is realized to be defrosted with water also with air temperature to -30 °C.

These units are available with different type of refrigerants:

- Dry expansion evaporators HFC
- Air coolers for no frost solutions
- Dry expansion evaporators CO₂
- Ammonia pump evaporators



Capacity range from 42 to 350 kW

Casing

The frame design provides high rigidity.

Casing manufactured from galvanized steel powder painted colour RAL 9002, corrosion resistant.

All rivets and bolts are in stainless steel AISI 304.

Heat exchanger

Heat exchanger is equipped with suspending tubes system that avoid the contact between tubes and frame and it provides full protection of the heat exchanger against vibrations and thermal expansions.

The coil is realized with copper pipes (rippled for REF and RBF diam. 12 mm and minimum thickness 0,3 mm to grant high efficiency and optimal evaporation, smooth for RGF diam. 16 mm and minimum thickness 0,3 mm) and aluminium fins. For ammonia units RAF, pipes are in stainless steel 304, diam. 16 mm and minimum thickness 0,7 mm.

Evaporators HFC: PS 30 bar and TS -40 / +120 °C, according to standards PED 2014/68/EU.

Evaporators CO₂: PS 33, 45 and 60 bar and TS -45 / +120 °C, according to standards PED 2014/68/EU.

Air coolers: PS 16 bar and TS -40 / +120 °C, according to standards PED 2014/68/EU.

Ammonia evaporators: PS 23 bar and TS -40 / +120 °C, according to standards PED 2014/68/EU.

Fans

High efficiency fans provide high performances with limited power consumption. They are complete of thermal protection, protection grid according to EN ISO 13857, dynamically and statically balanced and according to ErP directive.

AC and EC fans are available with diameter 560, 630, 710, 800 and 910 mm with motors with external rotor, insulation class F, standard protection degree IP 54 (EN 60529).

Standards

The products are designed and manufactured according to following EU Directive:

- PED 2014/68/UE
- 2006/42/CE (Machinery Directive)
- 2014/35/UE (LVD Directive)
- 2014/30/UE (EMC Directive)

Options

- Fins spacing 6,0 – 7,0 – 8,0 – 10,0 – 12,0 mm
- ATEX fans
- Stainless steel pipes AISI 304 or AISI 316L
- Stainless steel fins AISI 304 or AISI 316L
- Epoxy coated aluminum fins
- Protective coating on coil
- Fins alloy AlMg
- Insulated drip tray
- Electric, light electric, hot gas, hot glycol, water or combined defrost
- Fans ring heaters
- Drain outlet heater
- Air throw cowl
- Switch off for each fan
- AC and EC fans wiring
- Stainless steel casing AISI 304 or AISI 316L

Code key

R	B	F	071	2	H	6	A	4	D
1	2	3	4	5	6	7	8	9	10

1. Refteco
2. Type of refrigerant (E = HFC, G = glycol, B = CO₂, A = ammonia)
3. Floor installation
4. Fan diameter (mm)
5. Number of fans
6. Size of coil (number of rows)
7. Fins spacing (mm)
8. Type of defrost (A = air, E = electric, EL = light electric, HG = hot gas, W = water, GC = hot glycol)
9. Poles number of fans
10. Fans connection (D = triangle, Y = star, S = single phase)

Warranty

Products are granted, against any construction defect, for 24 months from shipping date. Damage caused by normal wear, corrosion, faulty assembly or maintenance are excluded.